

FILEID**FILL

c 14

The image shows a 2D grid pattern composed of binary symbols. The pattern forms a stylized letter 'E'. The vertical stroke of the 'E' is on the left, consisting of a column of 'I' symbols. The top bar consists of a row of 'L' symbols. The bottom bar consists of a row of 'S' symbols. There are also several 'F' and 'L' symbols scattered around the main structure.

```
0001 0 XTITLE 'EDTSFILL - fill command'  
0002 0 MODULE EDTSFILL (  
0003 0 IDENT = 'V04-000'  
0004 0 ) =  
0005 1 BEGIN  
0006 1 *****  
0007 1 *  
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0026 1 *  
0027 1 *  
0028 1 *****  
0029 1  
0030 1  
0031 1 ++  
0032 1 FACILITY: EDT -- The DEC Standard Editor  
0033 1  
0034 1 ABSTRACT:  
0035 1  
0036 1 This module implements the fill command for line mode  
0037 1 or change mode.  
0038 1  
0039 1 ENVIRONMENT: user mode.  
0040 1  
0041 1 AUTHOR: Bob Kushlis, CREATION DATE: 11-OCT-1979  
0042 1  
0043 1 MODIFIED BY:  
0044 1  
0045 1 2-001 - Regularize headers. JBS 05-Mar-1981  
0046 1 2-002 - Improve the appearance of the listing. JBS 14-Jun-1983  
0047 1 --  
0048 1
```

```
50      0049 1 %SBTTL 'Declarations'  
51      0050 1  
52      0051 1 | TABLE OF CONTENTS:  
53      0052 1  
54      0053 1  
55      0054 1 REQUIRE 'EDTSRC:TRAROUNAM';  
56      0493 1  
57      0494 1 FORWARD ROUTINE  
58      0495 1 EDT$FILL_TXT;  
59      0496 1  
60      0497 1  
61      0498 1 | INCLUDE FILES:  
62      0499 1  
63      0500 1  
64      0501 1 REQUIRE 'EDTSRC:EDTREQ';  
65      0636 1  
66      0637 1  
67      0638 1 | MACROS:  
68      0639 1  
69      0640 1     NONE  
70      0641 1  
71      0642 1 | EQUATED SYMBOLS:  
72      0643 1  
73      0644 1     NONE  
74      0645 1  
75      0646 1 | OWN STORAGE:  
76      0647 1  
77      0648 1     NONE  
78      0649 1  
79      0650 1 | EXTERNAL REFERENCES:  
80      0651 1  
81      0652 1     In the routine
```

83 0653 1 %SBTTL 'EDTSSFILL_TXT - fill command'
84 0654 1
85 0655 1 GLOBAL ROUTINE EDTSSFILL_TXT (! Fill command
86 0656 1 NLINES ! Number of lines to process
87 0657 1) =
88 0658 1
89 0659 1 ++
90 0660 1 FUNCTIONAL DESCRIPTION:
91 0661 1
92 0662 1 Do filling, in both line and change mode.
93 0663 1
94 0664 1 FORMAL PARAMETERS:
95 0665 1
96 0666 1 NLINES The number of lines to fill
97 0667 1
98 0668 1 IMPLICIT INPUTS:
99 0669 1
100 0670 1 EDTSSG_WD_WRAP
101 0671 1 EDTSSG_TI_WID
102 0672 1 EDTSSST_LN_BUF
103 0673 1 EDTSSG_LN_LEN
104 0674 1 EDTSSA_WK_LN
105 0675 1
106 0676 1 IMPLICIT OUTPUTS:
107 0677 1
108 0678 1 NONE
109 0679 1
110 0680 1 ROUTINE VALUE:
111 0681 1
112 0682 1 The number of lines filled.
113 0683 1
114 0684 1 SIDE EFFECTS:
115 0685 1
116 0686 1 NONE
117 0687 1
118 0688 1 --
119 0689 1
120 0690 2 BEGIN
121 0691 2
122 0692 2 EXTERNAL ROUTINE
123 0693 2 EDTSSFMT_CHWID,
124 0694 2 EDTSSDEL_CURLN,
125 0695 2 EDTSSINS_LN,
126 0696 2 EDTSSSTART_INS,
127 0697 2 EDTSSEND_INS,
128 0698 2 EDTSSRD_NXTLN;
129 0699 2
130 0700 2
131 0701 2 EXTERNAL
132 0702 2 EDTSSG_WD_WRAP,
133 0703 2 EDTSSG_TI_WID,
134 0704 2 EDTSSST_LN_BUF,
135 0705 2 EDTSSG_LN_LEN,
136 0706 2 EDTSSA_WK_LN : REF LIN_BLOCK;
137 0707 2
138 0708 2
139 0709 2 LABEL
PUTLINE:

```

140      0710 2 LOCAL
141      0711 2 MARGIN,
142      0712 2 COL,
143      0713 2 I,
144      0714 2 LC,
145      0715 2 LP,
146      0716 2 SP,
147      0717 2 REM,
148      0718 2 LEN,
149      0719 2 NL;

150      0720 2
151      0721 2 |+ Determine the margin.
152      0722 2 |-|
153      0723 2
154      0724 2
155      0725 2 IF (.EDT$SG_WD_WRAP NEQ 256) THEN MARGIN = .EDT$SG_WD_WRAP ELSE MARGIN = .EDT$SG_TI_WID - 1;
156      0726 2
157      0727 2 |+
158      0728 2 Set the filled line buffer to empty.
159      0729 2 The column number to 0,
160      0730 2 And the count of lines processed to 0.
161      0731 2 |-|
162      0732 2 LP = CHSPTR (EDT$ST_LN_BUF);
163      0733 2 LC = 0;
164      0734 2 COL = 0;
165      0735 2 I = .EDTSSA_WK_LN [LIN_LENGTH];
166      0736 2 NL = 0;
167      0737 2 |+
168      0738 2 Loop until NLINES have been processed.
169      0739 2 |-|
170      0740 2
171      0741 2 INCR J FROM 1 TO .NLINES DO
172      0742 3 BEGIN
173      0743 3 |+
174      0744 3 Strip trailing blanks and tabs
175      0745 3 |-|
176      0746 3 LEN = .EDTSSA_WK_LN [LIN_LENGTH];
177      0747 3 SP = CHSPTR (EDTSSA_WK_LN [LIN_TEXT], .LEN);
178      0748 3
179      0749 3 WHILE CHSPTR_GTR (.SP, EDTSSA_WK_LN [LIN_TEXT]) DO
180      0750 4 BEGIN
181      0751 4 SP = CHSPLUS (.SP, -1);
182      0752 4
183      0753 4 IF ((CH$RCHAR (.SP) NEQ %C' ') AND (CH$RCHAR (.SP) NEQ ASC_K_TAB)) THEN EXITLOOP;
184      0754 4
185      0755 4 LEN = .LEN - 1;
186      0756 3 END;
187      0757 3
188      0758 4 IF (.LEN NEQ 0)
189      0759 3 THEN
190      0760 4 BEGIN
191      0761 4
192      0762 4 INCR I FROM 0 TO .LEN DO
193      0763 5 BEGIN
194      0764 5
195      0765 6 IF (.I EQL .LEN)
196      0766 5 THEN

```

```
197      0767 5          CHSWCHAR (%C' ', .LP)
198      0768 5          ELSE CHSWCHAR (CH$RCHAR (CH$PTR (EDTSSA_WK_LN [LIN_TEXT], .I)), .LP);
199      0769 5
200      0770 5
201      0771 5          COL = .COL + EDT$$FMT_CHWID (CH$RCHAR_A (LP), .COL);
202      0772 5
203      0773 6          IF (.COL GTR .MARGIN)
204      0774 5          THEN
205      0775 5          PUTLINE :
206      0776 6          BEGIN
207      0777 6          !+
208      0778 6          ! Back up to a space.
209      0779 6          !-
210      0780 6          SP = CH$PLUS (.LP, -1);
211      0781 6
212      0782 6          WHILE (CH$RCHAR (.SP) NEQ %C' ') DO
213      0783 6
214      0784 7          IF CH$PTR_EQL (.SP, CH$PTR (EDT$ST_LN_BUF))
215      0785 6          THEN LEAVE PUTLINE
216      0786 6
217      0787 6          ELSE SP = CH$PLUS (.SP, -1);
218      0788 6
219      0789 6
220      0790 6          !+
221      0791 6          ! Insert the new line.
222      0792 6          !-
223      0793 6          EDT$$START_INS ();
224      0794 6          EDT$$INS_LN (CH$PTR (EDT$ST_LN_BUF), CH$DIFF (.SP, CH$PTR (EDT$ST_LN_BUF)));
225      0795 6          EDT$$END_INS ();
226      0796 6          NL = .NL + 1;
227      0797 6          !+
228      0798 6          ! And move the remaining characters to the beginning
229      0799 6          ! of the buffer.
230      0800 6          !-
231      0801 6          SP = CH$PLUS (.SP, 1);
232      0802 6          EDT$$CPY_MEM (CH$DIFF (.LP, .SP), .SP, CH$PTR (EDT$ST_LN_BUF));
233      0803 6          COL = 0;
234      0804 6          REM = CH$DIFF (.LP, .SP);
235      0805 6          LP = CH$PTR (EDT$ST_LN_BUF);
236      0806 6
237      0807 6          DECR I FROM .REM - 1 TO 0 DO
238      0808 6          COL = .COL + EDT$$FMT_CHWID (CH$RCHAR_A (LP), .COL);
239      0809 6
240      0810 5          END;
241      0811 5
242      0812 4          END;
243      0813 4
244      0814 4          EDT$$DEL_CURLN ();
245      0815 4          END
246      0816 3          ELSE
247      0817 3          !+
248      0818 3          ! Line was blank, break the fill at this point by inserting
249      0819 3          ! whatever remains from the previous line.
250      0820 3          !-
251      0821 4          BEGIN
252      0822 4          !+
253      0823 4          ! Insert the remainder of new line.
```

EDT\$FILL
 V04-000 EDT\$FILL - fill command
 EDT\$SFILL_TXT - fill command

I 14
 16-Sep-1984 00:22:47 VAX-11 Bliss-32 v4.0-742
 14-Sep-1984 12:23:06 DISK\$VMSMASTER:[EDT.SRC]FILL.BLI;1 Page 6 (3)

```

254 0824 4 !-
255 0825 4
256 0826 5
257 0827 4
258 0828 5
259 0829 5
260 0830 5
261 0831 5
262 0832 5
263 0833 5
264 0834 5
265 0835 4
266 0836 4
267 0837 4
268 0838 4
269 0839 4
270 0840 4
271 0841 2
272 0842 2
273 0843 3
274 0844 2
275 0845 3
276 0846 3
277 0847 3
278 0848 3
279 0849 3
280 0850 2
281 0851 2
282 0852 2
283 0853 1

      IF CHSPTR_NEQ (.LP, CHSPTR (EDTSST_LN_BUF))
      THEN
        BEGIN
          EDT$START INS ();
          EDT$INS_LN (EDTSST_LN_BUF, CH$DIFF (.LP, CHSPTR (EDTSST_LN_BUF)));
          EDT$END_INS ();
          NL = .NL + 1;
          LP = CHSPTR (EDTSST_LN_BUF);
          COL = 0;
        END;

        EDT$RD_NXTLN ();
        NL = .NL + 1;
      END

      END;

      IF CHSPTR_NEQ (.LP, CHSPTR (EDTSST_LN_BUF))
      THEN
        BEGIN
          EDT$START INS ();
          EDT$INS_LN (EDTSST_LN_BUF, CH$DIFF (.LP, CHSPTR (EDTSST_LN_BUF)));
          EDT$END_INS ();
          NL = .NL + 1;
        END;

      RETURN (.NL);
    END;
  
```

! of routine EDT\$FILL_TXT

.TITLE EDT\$FILL EDT\$FILL - fill command
 .IDENT \V04-000\

.EXTRN	EDT\$FMT_CHWID, EDT\$DEL_CURLN	
.EXTRN	EDT\$INS_LN, EDT\$START_INS	
.EXTRN	EDT\$END_INS, EDT\$RD_NXTLN	
.EXTRN	EDT\$SG_WD_WRAP, EDT\$SG_TI_WID	
.EXTRN	EDTSST_LN_BUF, EDT\$SG_EN_CEN	
.EXTRN	EDT\$SA_WK_LN	

.PSECT _EDT\$CODE,NOWRT, SHR, PIC,2

OFFC 00000				
00000100	5E 50 0000000G 8F	10 C2 00002 00 D0 00005 50 D1 0000C 05 13 00013	SUBL2 #16, SP MOVL EDT\$SG_WD_WRAP, R0 CMPL R0, #256 BEQL 1S MOVL R0, MARGIN BRB 2S	0655 R9, R10, R11
6E 0000000G	00 56 0000000G	01 C3 0001A 1\$: 00 9E 00022 2\$: 50 D4 00029	SUBL3 #1, EDT\$SG_TI_WID, MARGIN MOVAB EDTSST_LN_BUF, LP CLRL LC MOVL EDT\$SA_WK_LN, R0	0725 0732 0733 0735
	50 0000000G	00 D0 0002B 60 9A 00032	MOVZBL (R0), T	

EDTSFILL
V04-000EDTSFILL - fill command
EDT\$FILL_TXT - fill command

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		0C	AE	D4	00035	CLRL	NL	: 0736		
		04	AE	7C	00038	CLRQ	COL	: 0734		
		012E	31	0003B		BRW	18\$: 0741		
	50 00000000G	00	DO	0003E	3\$:	MOVL	EDTSSA WK_LN, R0	: 0746		
	5A	60	9A	00045		MOVZBL	(R0), [EN	: 0747		
	58	07	AA40	9E	00048	MOVAB	7(LEN)[R0], SP	: 0749		
	51	07	A0	9E	0004D	MOVAB	7(R0), R1	: 0753		
	51	58	D1	00051		CMPL	SP, R1			
	20	0E	1B	00054		BLEQU	6\$			
		78	91	00056		CMPB	-(SP), #32			
	09	05	13	00059		BEQL	5\$			
		68	91	0005B		CMPB	(SP), #9			
		04	12	0005E		BNEQ	6\$			
		5A	D7	00060	5\$::	DECL	LEN	: 0755		
		E9	11	00062		BRB	4\$: 0749		
		5A	D5	00064	6\$::	TSTL	LEN	: 0758		
		03	12	00066		BNEQ	7\$			
		00B8	31	00068		BRW	16\$			
	5B	01	CE	0006B	7\$::	MNEGL	#1, I	: 0773		
		00A3	31	0006E		BRW	15\$			
	5A	5B	D1	00071	8\$::	CMPL	I, LEN	: 0765		
	66	05	12	00074		BNEQ	9\$			
	66	20	90	00076		MOVB	#32, (LP)	: 0767		
	50 00000000G	00	DO	00078	9\$::	BRB	10\$: 0769		
	66	07	AB40	90	00082	MOVL	EDTSSA WK_LN, R0			
		04	AE	DD	00087	10\$::	MOVB	7(I)[R0], -(LP)		
		7E	86	9A	0008A	PUSHL	COL	: 0771		
	00 00000000G	00	02	FB	0008D	MOVZBL	(LP)+, -(SP)			
	04	AE	50	CO	00094	CALLS	#2, EDT\$SFMT_CHWID			
	6E	04	AE	D1	00098	ADDL2	R0, COL			
		76	15	0009C		CMPL	COL, MARGIN	: 0773		
	58	FF	A6	9E	0009E	BLEQ	15\$			
	20	68	91	000A2	11\$::	MOVAB	-1(R6), SP	: 0780		
		10	13	000A5		CMPB	(SP), #32	: 0782		
	50 00000000G	00	9E	000A7		BEQL	12\$			
	50	58	D1	000AE		MOVAB	EDT\$ST_LN_BUF, R0	: 0784		
		61	13	000B1		CMPL	SP, R0			
		58	D7	000B3		BEQL	15\$			
		EB	11	000B5		DECL	SP			
	00000000G	00	FB	000B7	12\$::	BRB	11\$			
		50 00000000G	00	9E	000BE	CALLS	#0, EDT\$START_INS	: 0793		
	7E	58	50	C3	000C5	MOVAB	EDT\$ST_LN_BUF, R0	: 0794		
		00000000G	00	9F	000C9	SUBL3	RO, SP, -(SP)			
	00000000G	00	02	FB	000CF	PUSHAB	EDT\$ST_LN_BUF			
	00000000G	00	00	FB	000D6	CALLS	#2, EDT\$INS_LN			
		OC	AE	D6	000DD	CALLS	#0, EDT\$SEND_INS	: 0795		
		58	D6	000EO		INCL	NL	: 0796		
	00000000G	59	58	C3	000E2	INCL	SP	: 0801		
	00	68	59	28	000E6	SUBL3	SP, LP, R9	: 0802		
		04	AE	D4	000EE	MOVC3	R9, (SP), EDT\$ST_LN_BUF	: 0803		
	57	59	D0	000F1		CLRL	COL	: 0804		
	56 00000000G	00	9E	000F4		MOVL	R9, REM	: 0805		
	52	57	D0	000FB		MOVAB	EDT\$ST_LN_BUF, LP	: 0807		
		11	11	000FE		MOVL	REM, I			
		7E	04	AE	DD	00100	13\$::	BRB	14\$	
		86	9A	00103		PUSHL	COL			
						MOVZBL	(LP)+, -(SP)	: 0808		

**

EDTSFILL
V04-000

EDTSFILL - fill command
EDTSSFILL_TXT - fill command

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		00000000G 00	02	FB 00106	CALLS	#2, EDTSSFMT_CHWID	
		04 AE	50	CO 0010D	ADDL2	RO, COL	
		EC	52	F4 00111	14\$: SOBGEQ	I, 13\$	
FF57	5B	01	5A	F1 00114	15\$: ACBL	LÉN, #1 I, 8\$	0762
		00000000G 00	00	FB 0011A	CALLS	#0, EDTSSDEL_CURLN	0814
		50 00000000G	49	11 00121	BRB	18\$	0758
		50	56	D1 0012A	MOVAB	EDTSST_LN_BUF, RO	0826
			33	13 0012D	CMPL	LP, RO	
		00000000G 00	00	FB 0012F	BEQL	17\$	
		50 00000000G	00	9E 00136	CALLS	#0, EDTSSSTART_INS	0829
7E	56		50	C3 0013D	MOVAB	EDTSST_LN_BUF, RO	0830
		00000000G 00	00	9F 00141	SUBL3	RO, LP, -(SP)	
		00000000G 00	02	FB 00147	PUSHAB	EDTSST_LN_BUF	
		00000000G 00	00	FB 0014E	CALLS	#2, EDTSSINS_LN	
			OC	AE D6 00155	CALLS	#0, EDTSEND_INS	0831
		56 00000000G	00	9E 00158	INCL	NL	0832
			04	AE D4 0015F	MOVAB	EDTSST_LN_BUF, LP	0833
		00000000G 00	00	FB 00162	CLRL	COL	0834
			OC	AE D6 00169	CALLS	#0, EDTSSRD_NXTLN	0837
FECA	08	AE	01	04 AC F1 0016C	INCL	NL	0838
			50 00000000G	00 9E 00174	ACBL	NLINES, #1, J, 3\$	0758
			50	56 D1 0017B	MOVAB	EDTSST_LN_BUF, RO	0843
				29 13 0017E	SUBL3	LP, RO	
		00000000G 00	00	FB 00180	BEQL	19\$	
		50 00000000G	00	9E 00187	CALLS	#0, EDTSSSTART_INS	0846
7E	56		50	C3 0018E	MOVAB	EDTSST_LN_BUF, RO	0847
		00000000G 00	00	9F 00192	SUBL3	RO, LP, -(SP)	
		00000000G 00	02	FB 00198	PUSHAB	EDTSST_LN_BUF	
			00	FB 0019F	CALLS	#2, EDTSSINS_LN	0848
		50	OC AE D6 001A6	INCL	CALLS	#0, EDTSEND_INS	0849
			04 001AD	00 001A9	MOVL	NL, RO	0852
				19\$:	RET		0853

; Routine Size: 430 bytes. Routine Base: _EDT\$CODE + 0000

; 284 0854 1
; 285 0855 1 !<BLF/PAGE>

EDT\$FILL
V04-000 EDT\$FILL - fill command
EDT\$\$FILL_TXT - fill command
287 0856 1 END
288 0857 1
289 0858 0 ELUDOM

L 14
16-Sep-1984 00:22:47 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:23:06 DISK\$VMSMASTER:[EDT.SRC]FILL.BLI;1 Page 9
(4)
! of module EDT\$FILL

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	430	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Symbols -----	Total	Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	12	3	50	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1			7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$::FILL/OBJ=OBJ\$::FILL MSRC\$::FILL.BLI/UPDATE=(ENH\$::FILL)

Size: 430 code + 0 data bytes
Run Time: 00:22.0
Elapsed Time: 00:26.2
Lines/CPU Min: 2338
Lexemes/CPU-Min: 8314
Memory Used: 139 pages
Compilation Complete

0133 AH-BT13A-SE
VAX/VMS V4.0

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EDTVECTOR
LIS

FCOLINC
LIS

FINAL
LIS

FINDMOLR
LIS

DEEKEY
LIS

ERRMSG
LIS

FCHAR
LIS